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| APPLICATION NO.                 | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------|-------------|----------------------|---------------------|------------------|
| 10/596,962                      | 06/30/2006  | Bruncello Locatori   | AP101-06            | 3156             |
| 29689                           | 7590        | 09/19/2007           | EXAMINER            |                  |
| DAVID A. GUERRA                 |             |                      | NGUYEN, HOANG V     |                  |
| INTERNATIONAL PATENT GROUP, LLC |             |                      | ART UNIT            | PAPER NUMBER     |
| 2025 17TH AVENUE N.W.           |             |                      | 2821                |                  |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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|                              |                        |                     |
|------------------------------|------------------------|---------------------|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |
|                              | 10/596,962             | LOCATORI, BRUNELLO  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |
|                              | Hoang V. Nguyen        | 2821                |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 30 June 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,3,5,6 and 12 is/are rejected.
- 7) Claim(s) 4 and 7-11 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 30 June 2007 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/30/06</u>   | 6) <input type="checkbox"/> Other: _____                          |

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Ashoor (WO 03/105358 A).

Ashoor (Figure 1, abstract) discloses a device and method for receiving satellite signals associated to a parabolic dish 10 suitable for reflecting to a corresponding focus a first signal at a first frequency and a second signal at a second frequency, the device comprising a first feed 4 arranged near the focus suitable for transducing the first signal and transmitting it to a first receiver; a second feed 8 arranged near the focus suitable for transducing the second signal and transmitting it to a second receiver; wherein the first frequency is dedicated to TV channels and the second frequency is at a band different from the first frequency and is dedicated to internet transmissions.

3. Claims 1, 5 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Luly et al (US 6,512,485 B2).

Regarding claims 1 and 12, Luly (Figure 1, abstract) discloses a device and method for receiving satellite signals associated to a parabolic dish 12 suitable for reflecting to a corresponding focus a first signal at a first frequency and a second signal at a second frequency, the device comprising a first feed 42 arranged near the focus suitable for transducing the first signal and transmitting it to a first receiver; a second feed 32 arranged near the focus suitable for

transducing the second signal and transmitting it to a second receiver; wherein the first frequency is dedicated to TV channels and the second frequency is at a band different from the first frequency and is dedicated to internet transmissions.

Regarding claim 5, as applied to claim 1, Figure 1 of Luly shows that the first feed 32 and the second feed constitute an integrated feed with common reflecting plate.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ashoor in view of Vignier (US 4,207,573).

Regarding claim 3, Ashoor discloses the claimed invention except that the second feed comprises a dipole. Vignier (Figure 3) discloses a dual frequency antenna system comprising a parabolic dish 3; a first feed 4; and a second feed 1, wherein the second feed is a dipole. It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the Ashoor device with the configuration wherein the second feed is a dipole, as taught by Vignier, doing so would enable the Ashoor device to simultaneously communicate in two separate frequencies with minimum distortion.

Regarding claim 6, as applied to claim 3, Figure 3 of Vignier shows that the dipole 1 comprises two diverging terminals aligned along a line orthogonal to the axis of the parabolic dish and external to the tubular waveguide.

***Allowable Subject Matter***

6. Claims 2, 4 and 7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 2, neither Ashoor nor Luly further teaches, in combination with other limitations, that the first feed is of double reflection type, comprising a reflecting plate that directs signals already reflected from the parabolic dish towards a tubular wave guide co-axial to the parabolic dish.

Regarding claim 4, as applied to claim 3, neither Ashoor, Vignier nor Luly specifically teaches, in combination with other limitations, that the second feed is of double reflection type, comprising a reflecting plate that directs signals already reflected from the parabolic dish towards the dipole.

Regarding claims 7 and 8, neither Ashoor nor Luly, further teaches, in combination with other limitations, that the integrated feed provides a body made of material permeable to electromagnetic waves and that keeps physically together the reflecting plate, the dipole and the tubular wave guide.

Regarding claim 9, neither Ashoor, Vignier nor Luly specifically teaches, in combination with other limitations, that the dipole comprises two dipoles spaced at 90° with respect to each other.

Regarding claims 10 and 11, neither Ashoor, Vignier nor Luly further teaches that, in case a TV signal is sought that comes from a satellite with orbital position distant from the

satellite from which comes a signal for Internet trans-receiving, a third feed is provided arranged with axis oblique with respect to the axis of the parabolic dish.

*Inquiry*

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 8:00 a.m. to 4:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hvn  
9/8/07

  
HOANG V. NGUYEN  
PRIMARY EXAMINER